FILE 'STNGUIDE' ENTERED AT 10:19:03 ON 01 JUN 2009 COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.07	598.41
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-39.28
=> file reg COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY 0.07	SESSION 598.41
DISCOUNT AMOUNTS (FOR OUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY 0.00	SESSION -39.28

FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the  ${\tt ZIC/VINITI}$  data file provided by InfoChem.

STRUCTURE FILE UPDATES: 31 MAY 2009 HIGHEST RN 1151391-70-6 DICTIONARY FILE UPDATES: 31 MAY 2009 HIGHEST RN 1151391-70-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting  ${\tt SmartSELECT}$  searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>

Uploading C:\Program Files\STNEXP\Queries\10590623\_new\_1.str

```
chain nodes :
7  8  9
ring nodes :
1  2  3  4  5  10  11  12  13  14  15  16  17  18
chain bonds :
2-7  3-8  5-9
ring bonds :
1-2  1-5  2-3  3-4  4-5  10-15  10-11  11-12  12-13  12-16  13-14  13-18  14-15
16-17  17-18
exact/norm bonds :
1-2  1-5  2-3  2-7  3-4  3-8  4-5  5-9  10-15  10-11  11-12  12-13  12-16  13-14
13-18  14-15  16-17  17-18
```

G1:0,S

G2:C,O,S,N

G3:0,S,N

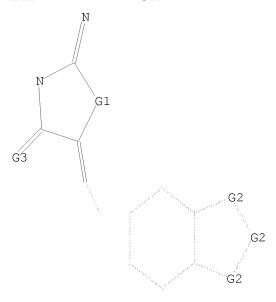
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 21:CLASS

## L12 STRUCTURE UPLOADED

=> d

L12 HAS NO ANSWERS L12 STR



G1 O,S G2 C,O,S,N G3 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 112 sam

SAMPLE SEARCH INITIATED 10:19:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 857 TO ITERATE

100.0% PROCESSED 857 ITERATIONS 25 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 15384 TO 18896

PROJECTED ANSWERS: 200 TO 800

L13 25 SEA SSS SAM L12

=> s 112 full

FULL SEARCH INITIATED 10:21:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 17550 TO ITERATE

100.0% PROCESSED 17550 ITERATIONS 843 ANSWERS

SEARCH TIME: 00.00.01

L14 843 SEA SSS FUL L12

=>

Uploading C:\Program Files\STNEXP\Queries\10590623\_new\_2.str



```
chain nodes :
7  8  9
ring nodes :
1  2  3  4  5  10  11  12  13  14  15  16  17  18
chain bonds :
2-7  3-8  5-9
ring bonds :
1-2  1-5  2-3  3-4  4-5  10-15  10-11  11-12  12-13  12-16  13-14  13-18  14-15
16-17  17-18
exact/norm bonds :
1-2  1-5  2-3  2-7  3-4  3-8  4-5  5-9  10-15  10-11  11-12  12-13  12-16  13-14
13-18  14-15  16-17  17-18
```

G1:0,S

G2:C,O,S,N

G3:0,S,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 21:CLASS

## L15 STRUCTURE UPLOADED

=> s 115 sam

SAMPLE SEARCH INITIATED 10:21:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 66 TO ITERATE

100.0% PROCESSED 66 ITERATIONS 17 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 833 TO 1807

PROJECTED ANSWERS: 93 TO 587

L16 17 SEA SSS SAM L15

=> d 115 L15 HAS NO ANSWERS L15 STR

G1 O,S G2 C,O,S,N G3 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 115 full FULL SEARCH INITIATED 10:22:03 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 1667 TO ITERATE

100.0% PROCESSED 1667 ITERATIONS 551 ANSWERS

SEARCH TIME: 00.00.01

L17 551 SEA SSS FUL L15

=> d his

(FILE 'HOME' ENTERED AT 08:00:53 ON 01 JUN 2009)

L1 L2 L3		2009	
L4 L5 L6 L7 L8 L9	50 S L6 SAM STRUCTURE UPLOADED	UN 2009	
L11	FILE 'CAPLUS' ENTERED AT 09:21:05 ON 01 JUN 46 S L10	2009	
	FILE 'STNGUIDE' ENTERED AT 09:25:07 ON 01 J	UN 2009	
	FILE 'CAPLUS' ENTERED AT 09:52:47 ON 01 JUN	2009	
	FILE 'STNGUIDE' ENTERED AT 09:52:58 ON 01 J	UN 2009	
L15 L16	25 S L12 SAM 843 S L12 FULL STRUCTURE UPLOADED	UN 2009	
	s 114 not 117 292 L14 NOT L17		
	File caplus I IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL	L ESTIMATED COST		972.09
	COUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	ENTRY	TOTAL SESSION -39.28

FILE 'CAPLUS' ENTERED AT 10:22:31 ON 01 JUN 2009
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FILE COVERS 1907 - 1 Jun 2009 VOL 150 ISS 23 FILE LAST UPDATED: 31 May 2009 (20090531/ED)

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REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009
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CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate

=> d his

(FILE 'HOME' ENTERED AT 08:00:53 ON 01 JUN 2009)

FILE 'MARPAT' ENTERED AT 08:01:05 ON 01 JUN 2009

L1 STRUCTURE UPLOADED

L2 0 S L1 SAM

L3 2 S L1 FULL

FILE 'REGISTRY' ENTERED AT 09:17:21 ON 01 JUN 2009

L4 STRUCTURE UPLOADED

L5 50 S L4 SAM

L6 STRUCTURE UPLOADED

L7 50 S L6 SAM

L8 STRUCTURE UPLOADED

L10 818 S L8 FULL

FILE 'CAPLUS' ENTERED AT 09:21:05 ON 01 JUN 2009 L11 46 S L10

FILE 'STNGUIDE' ENTERED AT 09:25:07 ON 01 JUN 2009

FILE 'CAPLUS' ENTERED AT 09:52:47 ON 01 JUN 2009

FILE 'STNGUIDE' ENTERED AT 09:52:58 ON 01 JUN 2009

FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009

L12 STRUCTURE UPLOADED

L13 25 S L12 SAM

L14 843 S L12 FULL

L15 STRUCTURE UPLOADED

L16 17 S L15 SAM

L17 551 S L15 FULL

L18 292 S L14 NOT L17

FILE 'CAPLUS' ENTERED AT 10:22:31 ON 01 JUN 2009

=> s 118

L19 16 L18

=> d l19 ibib gi abs 1-16 hitstr

=> d his

(FILE 'HOME' ENTERED AT 08:00:53 ON 01 JUN 2009)

FILE 'MARPAT' ENTERED AT 08:01:05 ON 01 JUN 2009

STRUCTURE UPLOADED

L1

```
L2
              0 S L1 SAM
L3
              2 S L1 FULL
     FILE 'REGISTRY' ENTERED AT 09:17:21 ON 01 JUN 2009
               STRUCTURE UPLOADED
L4
L5
             50 S L4 SAM
L6
                STRUCTURE UPLOADED
L7
             50 S L6 SAM
L8
               STRUCTURE UPLOADED
L9
             25 S L8 SAM
L10
            818 S L8 FULL
     FILE 'CAPLUS' ENTERED AT 09:21:05 ON 01 JUN 2009
L11
             46 S L10
     FILE 'STNGUIDE' ENTERED AT 09:25:07 ON 01 JUN 2009
     FILE 'CAPLUS' ENTERED AT 09:52:47 ON 01 JUN 2009
    FILE 'STNGUIDE' ENTERED AT 09:52:58 ON 01 JUN 2009
    FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009
L12
               STRUCTURE UPLOADED
             25 S L12 SAM
L13
L14
            843 S L12 FULL
                STRUCTURE UPLOADED
L15
            17 S L15 SAM
L16
L17
            551 S L15 FULL
L18
            292 S L14 NOT L17
    FILE 'CAPLUS' ENTERED AT 10:22:31 ON 01 JUN 2009
L19
           16 S L18
=> s 117
           33 L17
L20
=> d 120 ibib gi abs fhitstr 1-33
=> logoff hold
     (FILE 'HOME' ENTERED AT 08:00:53 ON 01 JUN 2009)
     FILE 'MARPAT' ENTERED AT 08:01:05 ON 01 JUN 2009
                STRUCTURE UPLOADED
L1
              O SEA FILE=MARPAT SSS SAM L1
L2
                D L1
              2 SEA FILE=MARPAT SSS FUL L1
L3
                D L3 IBIB ABS
                D L3 IBIB ABS 2
     FILE 'REGISTRY' ENTERED AT 09:17:21 ON 01 JUN 2009
L4
                STRUCTURE UPLOADED
L5
             50 SEA FILE=REGISTRY SSS SAM L4
                STRUCTURE UPLOADED
L6
L7
             50 SEA FILE=REGISTRY SSS SAM L6
L8
                STRUCTURE UPLOADED
                D
L9
             25 SEA FILE=REGISTRY SSS SAM L8
```

L10 818 SEA FILE=REGISTRY SSS FUL L8			
FILE 'CAPLUS' ENTERED AT 09:21:05 ON 01 JUN 2009 L11 46 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L10 D L11 1-46 IBIB GI ABS FHITSTR			
FILE 'STNGUIDE' ENTERED AT 09:25:07 ON 01 JUN 2009			
FILE 'CAPLUS' ENTERED AT 09:52:47 ON 01 JUN 2009 D L11 13 HITSTR			
FILE 'STNGUIDE' ENTERED AT 09:52:58 ON 01 JUN 2009			
FILE 'REGISTRY' ENTERED AT 10:19:12 ON 01 JUN 2009 L12 STRUCTURE UPLOADED D			
L13 25 SEA FILE=REGISTRY SSS SAM L12 L14 843 SEA FILE=REGISTRY SSS FUL L12 L15 STRUCTURE UPLOADED L16 17 SEA FILE=REGISTRY SSS SAM L15 D L15			
L17 551 SEA FILE=REGISTRY SSS FUL L15 L18 292 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L14 NOT L17			
FILE 'CAPLUS' ENTERED AT 10:22:31 ON 01 JUN 2009 L19 16 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L18 D L19 IBIB GI ABS 1-16 HITSTR L20 33 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L17 D L20 IBIB GI ABS FHITSTR 1-33			
COST IN U.S. DOLLARS  SINCE FILE ENTRY SESSION			
FULL ESTIMATED COST 293.86 1265.95			
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  CA SUBSCRIBER PRICE  SINCE FILE ENTRY SESSION -40.18 -79.46			
SESSION WILL BE HELD FOR 120 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 10:43:44 ON 01 JUN 2009			